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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,771	01/26/2004	Marcus F. Fontoura	SVL920030116US1	9736

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EXAMINER	
ALI, MOHAMMAD	

ART UNIT	PAPER NUMBER
2166	

MAIL DATE	DELIVERY MODE
02/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

Interview Summary	Application No. 10/764,771	Applicant(s) FONTOURA ET AL.	
	Examiner Mohammad Ali	Art Unit 2166	

All participants (applicant, applicant's representative, PTO personnel):

- (1) Mohammad Ali. (3) ____.
- (2) Janaki K. Davda (RN: 40,684). (4) ____.

Date of Interview: 21 February 2007.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.
If Yes, brief description: _____.

Claim(s) discussed: 1.

Identification of prior art discussed: None.


Agreement with respect to the claims f) ☐ was reached. g) ☐ was not reached. h) ☒ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicant's representative discussed the proposed amendment and 101 issues. Examiner suggests adding claim limitations 12 to all independent claims including proposed amendment may be overcome the prior art of record. After receiving the amendments further search will be conducted and another office action will follow-up. Applicant's agreed to file an RCE with the amendments.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.


Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

KONRAD RAYNES & VICTOR, LLP

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FAX COVER SHEET

PLEASE DELIVER THIS FACSIMILE TO EXAMINER MOHAMMAD ALI

TO: Commissioner for Patents
Attn: Examiner Mohammad Ali
Group Art Unit 2166
Patent Examining Corps
Facsimile Center
Alexandria, VA 22313

FROM: Janaki K. Davda

OUR REF: 0056.0018
TELEPHONE: 310-556-7983

Total pages, including cover letter: 15

PTO FAX NUMBER 1-571-273-4105

If you do NOT receive all of the pages, please telephone us at 310/556-7983, or fax us at 310/556-7984.

Description of Documents Transmitted: PROPOSED AGENDA FOR INTERVIEW

Applicant: M.F. FONTOURA et al.
Serial No.: 10/764,771
Filed: January 26, 2004
Group Art Unit: 2166
Docket No.: SVL920030116US1

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on
February 13, 2007

By: Janaki K. Davda
Name: Janaki K. Davda

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	M.F. FONTOURA et al.	Examiner	Mohammad Ali
Serial No.	10/764,771	Group Art Unit	2166
Filed	January 26, 2004	Docket No.	SVL920030116US1
TITLE	METHOD, SYSTEM, AND PROGRAM FOR HANDLING REDIRECTS IN A SEARCH ENGINE		

CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being transmitted by facsimile to Mohammad Ali of the U.S. Patent and Trademark Office at 1-571-273-4105 on February 13, 2007.


Janaki K. Davda

INFORMAL/DRAFT COMMUNICATION -
DO NOT ENTER INTO PROSECUTION RECORD:
PROPOSED AGENDA FOR INTERVIEW

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Examiner:

This agenda is being submitted prior to a telephone interview.

The tentative participants are Examiner Ali and Janaki K. Davda.

The proposed date of Interview is Wednesday, February 21, 2007. The proposed time is 1:00 p.m. (EST).

A telephone interview is requested.

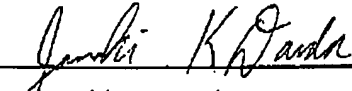
No exhibit will be shown.

Dated February 13, 2007

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Docket No. SVL920030116US1
Firm No. 0056.0018

Applicants would like to discuss the claims as amended in the amendment filed on February 13, 2007, a copy of which is attached.

Dated: February 13, 2007

By: 
Janaki K. Davda
Registration No. 40,684

Please direct all correspondences to:

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	M.F. FONTOURA et al.	Examiner	Mohammad Ali
Serial No.	10/764,771	Group Art Unit	2166
Filed	January 26, 2004	Docket No.	SVL920030116US1
TITLE	METHOD, SYSTEM, AND PROGRAM FOR HANDLING REDIRECTS IN A SEARCH ENGINE		

CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being transmitted through the USPTO EFS-Web system over the Internet to Mohammad Ali of the U.S. Patent and Trademark Office on February 13, 2007.

/Janaki K. Davda/

Janaki K. Davda Reg. No. 40,684

REPLY UNDER 37 CFR 1.116 - EXPEDITED PROCEDURE
REQUEST FOR RECONSIDERATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Amendments to the Claims are reflected in the listing of claims which begins on page 2.

Remarks/Arguments begin on page 8.

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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method for handling redirects in documents, comprising:
while generating an index,

forming at least one equivalence class that includes documents that are connected through a redirect, wherein each equivalence class describes a redirect chain;

detecting cycles for each equivalence class, wherein documents in a cycle are marked so that they are not indexed, and, wherein, for each equivalence class, the cycle is formed when a last document in the redirect chain redirects to a first document in the redirect chain;

detecting incomplete chains for each equivalence class, wherein documents in an incomplete chain are marked so that they are not indexed, and, wherein, for each equivalence class, the indirect chain is formed when a last document in the redirect chain redirects to a document that has not been crawled; and

selecting a representative for each equivalence class whose documents are to be indexed, wherein the representative is associated with a path that indicates a location of a document in a data store.

2. (Original) The method of claim 1, wherein the representative is selected based on a type of redirect in an equivalence class.

3. (Original) The method of claim 1, wherein the representative is selected based on a rank of each document in the equivalence class.

4. (Original) The method of claim 1, further comprising:
locating each document that contains a redirect; and
creating an entry in a redirect file for each document.

5. (Original) The method of claim 4, wherein the entry includes a source path, a target path, and a redirect type.

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6. (Original) The method of claim 1, further comprising:
detecting duplicate documents in two different equivalence classes; and
merging the equivalence classes.
7. (Original) The method of claim 6, wherein documents are duplicates if a certain
portion of their content is similar.
8. (Original) The method of claim 1, wherein the documents in the at least one
equivalence class include a target document and one or more source documents and wherein the
selected representative is one of the source documents, further comprising:
propagating the content of the target document to the selected representative.
9. (Original) The method of claim 1, wherein the documents in the at least one
equivalence class include a target document and one or more source documents, and wherein at
least one source document includes a path to the target document.
10. (Original) The method of claim 9, further comprising:
indexing the content of the target document with a path of the representative.
11. (Original) The method of claim 1, wherein marking documents so that they are
not indexed includes marking documents to indicate the documents are to be ignored.
12. (Original) The method of claim 1, further comprising:
determining a rank for each of the documents, wherein the rank represents an importance
of each document relative to the other documents.
13. (Currently Amended) An article of manufacture comprising one of hardware logic
and a computer readable medium including a program for handling redirects in documents,
wherein the hardware logic or program causes operations to be performed, the operations
comprising:

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while generating an index,

forming at least one equivalence class that includes documents that are connected through a redirect, wherein each equivalence class describes a redirect chain;

detecting cycles for each equivalence class, wherein documents in a cycle are marked so that they are not indexed, and, wherein, for each equivalence class, the cycle is formed when a last document in the redirect chain redirects to a first document in the redirect chain;

detecting incomplete chains for each equivalence class, wherein documents in an incomplete chain are marked so that they are not indexed, and, wherein, for each equivalence class, the indirect chain is formed when a last document in the redirect chain redirects to a document that has not been crawled; and

selecting a representative for each equivalence class whose documents are to be indexed, wherein the representative is associated with a path that indicates a location of a document in a data store.

14. (Original) The article of manufacture of claim 13, wherein the representative is selected based on a type of redirect in an equivalence class.

15. (Original) The article of manufacture of claim 13, wherein the representative is selected based on a rank of each document in the equivalence class.

16. (Original) The article of manufacture of claim 13, wherein the operations further comprise:

locating each document that contains a redirect; and
creating an entry in a redirect file for each document.

17. (Original) The article of manufacture of claim 16, wherein the entry includes a source path, a target path, and a redirect type.

18. (Original) The article of manufacture of claim 13, wherein the operations further comprise:

detecting duplicate documents in two different equivalence classes; and

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merging the equivalence classes.

19. (Original) The article of manufacture of claim 18, wherein documents are duplicates if a certain portion of their content is similar.

20. (Original) The article of manufacture of claim 13, wherein the documents in the at least one equivalence class include a target document and one or more source documents and wherein the selected representative is one of the source documents, wherein the operations further comprise:

propagating the content of the target document to the selected representative.

21. (Original) The article of manufacture of claim 13, wherein the documents in the at least one equivalence class include a target document and one or more source documents, and wherein at least one source document includes a path to the target document.

22. (Original) The article of manufacture of claim 21, wherein the operations further comprise:

indexing the content of the target document with a path of the representative.

23. (Original) The article of manufacture of claim 13, wherein the operations for marking documents so that they are not indexed include operations for marking documents to indicate the documents are to be ignored.

24. (Original) The article of manufacture of claim 13, wherein the operations further comprise:

determining a rank for each of the documents, wherein the rank represents an importance of each document relative to the other documents.

25. (Currently Amended) A computer system including logic for handling redirects in documents, comprising:

while generating an index

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forming at least one equivalence class that includes documents that are connected through a redirect, wherein each equivalence class describes a redirect chain;

detecting cycles for each equivalence class, wherein documents in a cycle are marked so that they are not indexed, and, wherein, for each equivalence class, the cycle is formed when a last document in the redirect chain redirects to a first document in the redirect chain;

detecting incomplete chains for each equivalence class, wherein documents in an incomplete chain are marked so that they are not indexed, and, wherein, for each equivalence class, the indirect chain is formed when a last document in the redirect chain redirects to a document that has not been crawled; and

selecting a representative for each equivalence class whose documents are to be indexed, wherein the representative is associated with a path that indicates a location of a document in a data store.

26. (Original) The computer system of claim 25, wherein the representative is selected based on a type of redirect in an equivalence class.

27. (Original) The computer system of claim 25, wherein the representative is selected based on a rank of each document in the equivalence class.

28. (Original) The computer system of claim 25, wherein the logic further comprises: locating each document that contains a redirect; and creating an entry in a redirect file for each document.

29. (Original) The computer system of claim 28, wherein the entry includes a source path, a target path, and a redirect type.

30. (Original) The computer system of claim 25, wherein the logic further comprises: detecting duplicate documents in two different equivalence classes; and merging the equivalence classes.

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31. (Original) The computer system of claim 30, wherein documents are duplicates if a certain portion of their content is similar.

32. (Original) The computer system of claim 31, wherein the documents in the at least one equivalence class include a target document and one or more source documents and wherein the selected representative is one of the source documents, wherein the logic further comprises: propagating the content of the target document to the selected representative.

33. (Original) The computer system of claim 25, wherein the documents in the at least one equivalence class include a target document and one or more source documents, and wherein at least one source document includes a path to the target document.

34. (Original) The computer system of claim 33, wherein the logic further comprises: indexing the content of the target document with a path of the representative.

35. (Original) The computer system of claim 25, wherein marking documents so that they are not indexed includes marking documents to indicate the documents are to be ignored.

36. (Original) The computer system of claim 25, wherein the logic further comprises: determining a rank for each of the documents, wherein the rank represents an importance of each document relative to the other documents.

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REMARKS/ARGUMENTS

Claims 1-36 are pending in the application. Claim 1, 13, and 25 have been amended to clarify certain terms. Reconsideration is respectfully requested. Applicant submits that the pending claims 1-36 are patentable over the art of record and allowance is respectfully requested of claims 1-36.

Claims 1-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lim et al. "Dynamic Maintenance of Web Indexes Using Landmarks" in view of Jim McKeeth (U.S. Patent No. 6,763,362). Applicants respectfully traverse.

The Lim reference is directed to studying the problem of keeping inverted indexes up-to-date (Introduction). On the other hand, claims 1, 13, and 25 are directed to handling redirects in documents. For example, paragraph 5 on page 1 of the Specification describes:

Some Web pages do not contain content, but, instead, contain a "redirect" to another Web page. For example, if a given Web page A (i.e., a source) redirects to another Web page B (i.e., a target), the Web browser shows Web page B whenever a request for Web page A is received.

Claims 1, 13, and 25 describe "while generating an index" (e.g., Specification, pages 4-9, paragraphs 15-32; FIGs. 2A and 2B), while the Lim reference is directed to studying updates to an index that has already been created. Therefore, Applicants respectfully submit that the Lim reference teaches away from claims 1, 13, and 25.

Additionally, claims 1, 13, and 25 describe forming at least one equivalence class that includes documents that are connected through a redirect, wherein each equivalence class describes a redirect chain. For example, paragraph 21 on page 6 of the Specification describes:

Initially, each document is in its own equivalence class. Then, for each entry in the redirect file, if a first document redirects to a second document, the equivalence classes of the first and second documents are unified. Continuing with this processing, if the second document redirects to a third document, then the third document is in the same

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equivalence class as the first and second documents. The redirect component 136, thus, processes the entries in the redirect file to identify redirect chains in the form of equivalence classes.

The Examiner cites the Lim reference, section 2.1, "Forward Index Update", as teaching this element. Applicants respectfully traverse. The Lim reference describes that for each document, a forward index stores words that occur in that document and the positions of each occurrence. Storing words that occur in a document does not teach or suggest forming at least one equivalence class that includes documents that are connected through a redirect, wherein each equivalence class describes a redirect chain.

Moreover, claims 1, 13, and 25 also describe detecting cycles for each equivalence class, wherein documents in a cycle are marked so that they are not indexed, and, wherein, for each equivalence class, the cycle is formed when a last document in the redirect chain redirects to a first document in the redirect chain. For example, paragraph 22 on page 6 of the Specification describes:

For example, a cycle occurs when a first document redirects to a second document, which redirects to a third document, which redirects back to the first document. Once the redirect chains are identified, the redirect component 136 performs cycle detection. In particular, cycle detection analyzes each redirect chain, looking for cycles. If a cycle is detected in a redirect chain, the redirect component 136 marks the documents involved in that redirect chain with a "do not index" indicator (e.g., flag), which indicates to the indexing component 142 that these documents are invalid documents that should not be indexed.

The Examiner cites the Lim reference, Section 2.4, Approximate nearness queries, as teaching this. Applicants respectfully traverse. Section 2.4 describes that, if fine grain positional information is not needed, the inverted index can just store the landmark IDs without the offsets. There is no description of detecting cycles for each equivalence class, wherein documents in a cycle are marked so that they are not indexed, and, wherein, for each equivalence class, the cycle

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is formed when a last document in the redirect chain redirects to a first document in the redirect chain.

Also, claims 1, 13, and 26 describe detecting incomplete chains for each equivalence class, wherein documents in an incomplete chain are marked so that they are not indexed, and, wherein, for each equivalence class, the indirect chain is formed when a last document in the redirect chain redirects to a document that has not been crawled. For example, paragraph 23 on pages 6-7 of the Specification describes:

An example of an incomplete chain occurs when the documents in a single redirect chain are redirects, $R1 \rightarrow R2 \rightarrow \dots \rightarrow R_n$, where R_n is a redirect to a document that was not discovered, fetched, and stored by the crawler component 132 (i.e., "crawled"). This redirect chain is considered incomplete because there is no content associated with R_n (because it was not "crawled"). The redirect component 136 marks documents in the incomplete redirect chain with a "do not index" indicator.

The Lim reference in section 4, Experimental Evaluation, describes measuring the number of inverted index update operations generated by the landmark-diff method and compare it with that of the forward index method. There is no description of detecting incomplete chains for each equivalence class, wherein documents in an incomplete chain are marked so that they are not indexed, and, wherein, for each equivalence class, the indirect chain is formed when a last document in the redirect chain redirects to a document that has not been crawled.

Furthermore, claims 1, 13, and 26 describe selecting a representative for each equivalence class whose documents are to be indexed, wherein the representative is associated with a path that indicates a location of a document in a data store. For example, paragraph 25 on page 7 of the Specification describes:

In certain implementations, the redirect component 136 selects a representative for each redirect chain (e.g., equivalence class) whose documents have not been marked with a "do not index" indicator. In certain implementations, the representative is a path (e.g., a URL) with which the content of the final target document in the chain is indexed.

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The Examiner cites the Lim reference, section 4, Landmark Policy and Block Size, as teaching "selecting a representative for each equivalence class" Applicants respectfully traverse. The Lim reference in the cited section 4 describes fixed size partitioning. There is no description of selecting a representative for each equivalence class whose documents are to be indexed.

The Examiner also notes that Lim does not explicitly indicate claimed documents are to be indexed wherein the representative is associated with a path that indicates a location of a document in a data store, but cites the McKeeth patent as teaching this. Applicants respectfully traverse. The McKeeth patent describes that a popularity parameter is defined, and a popularity value is assigned to each link, and the most popular links are selected for updating the contents stored, or associated with, the site to which the links refer (Abstract). Applicants respectfully submit that the McKeeth patent does not teach or suggest that the representative for each equivalence class (wherein each equivalence class describes a redirect chain, as described in an earlier element of claims 1, 13, and 25) is associated with a path that indicates a location of a document in a data store.

Thus, claims 1, 13, and 25 are not taught or suggested by the Lim reference or the McKeeth patent, either alone or in combination.

Dependent claims 2-12, 14-24, and 26-36 incorporate the language of independent claims 1, 13, and 25 and add additional novel elements. Therefore, dependent claims 2-12, 14-24, and 26-36 are not taught or suggested by the Lim reference or the McKeeth patent, either alone or in combination, for at least the same reasons as were discussed with respect to claims 1, 13, and 25.

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Conclusion

For all the above reasons, Applicant submits that the pending claims 1-36 are patentable over the art of record. Applicants have not added any claims. Nonetheless, should any additional fees be required, please charge Deposit Account No. 09-0460.

The attorney of record invites the Examiner to contact her at (310) 553-7973 if the Examiner believes such contact would advance the prosecution of the case.

Dated: February 13, 2007

By: ___/Janaki K. Davda/___

Janaki K. Davda
Registration No. 40,684

Please direct all correspondences to:

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